

Title (en)  
MAGNETIC Z-ACTUATOR AND WAFER HOLDER COMPRISING SUCH ACTUATOR

Title (de)  
MAGNETISCHER Z-AKTUATOR UND WAFER-HALTER MIT SOLCH EINEM AKTUATOR

Title (fr)  
ACTIONNEUR Z MAGNÉTIQUE ET SUPPORT DE TRANCHE COMPRENANT UN TEL ACTIONNEUR

Publication  
**EP 4047250 A1 20220824 (EN)**

Application  
**EP 21158383 A 20210222**

Priority  
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Abstract (en)  
The invention relates to a magnetic Z-actuator (10) comprising a stationary assembly (20) and a mobile assembly (40) configured to move relatively to the stationary assembly (20) from a first to a second stable axial position and vice versa. The stationary assembly (20) comprises a first and a second magnetic yoke (22a, 22b) and a first and a second coil (34a, 34b) at least partially embedded in respective first and second magnetic yoke (22a, 22b). The mobile assembly (40) comprises permanent magnets (44a, 44b, 48a, 48b). The magnetic Z-actuator (10) is configured such that the first and second coils (34a, 34b) are energized only to move the mobile assembly (40) from the first to the second stable axial position and vice versa. The mobile assembly (40) remains in either the first and second stable axial positions without providing current to the first and second coils (34a, 34b). The mobile assembly (40) comprises a mobile magnetic yoke (42), and a first and a second permanent magnet (44a, 44b) mounted on the mobile magnetic yoke (42) to face a bottom surface (30a, 30b) of respective first and second magnetic yoke (22a, 22b).

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Citation (applicant)  
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